

## **Ce<sup>3+</sup>+Pr<sup>3+</sup>:LiY<sub>0.3</sub>Lu<sub>0.7</sub>F<sub>4</sub> mixed crystal as a perspective upconversionally Pumped UV active medium**

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### **Abstract**

© Published under licence by IOP Publishing Ltd. The key parameters of processes provided up-conversion pumping of 5d-states of Ce<sup>3+</sup> ions in Ce<sup>3+</sup>, Pr<sup>3+</sup>:LiY<sub>0.3</sub>Lu<sub>0.7</sub>F<sub>4</sub> mixed crystals were estimated for the first time. The prospects of this material as the first up-conversionally pumped UV active media were demonstrated.

<http://dx.doi.org/10.1088/1742-6596/560/1/012010>

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